

JC931 U.S. S. PTO
09/688573



LIST OF REFERENCES CITED BY APPLICANT

(Use Several Sheets if Necessary)

DOCKET NO.: 0973/1b889-US1

SERIAL NO: To Be Assigned
(U.S. Nat'l. Phase of Int'l.
Appln. No. PCT/US97/08159
Filed 24 April, 1997)

APPLICANT: Michael SEUL

FILING DATE: Concurrently Herewith

U.S. PATENT DOCUMENTS

***EXAMINER INITIALS** **DOCUMENT NUMBER** **DATE** **NAME** **CLASS** **SUBCLASS** **FILING DATE**

FOREIGN PATENT DOCUMENTS

*EXAMINER DOCUMENT DATE COUNTRY CLASS TRANSLATION
INITIALS NUMBER SUBCLASS YES NO

OTHER REFERENCES
(INCLUDING AUTHOR, TITLE DATE, PERTINENT PAGES, ETC.)

EXAMINER:

DATE CONSIDERED:

LIST OF REFERENCES CITED BY APPLICANT

(Use Several Sheets If Necessary)

DOCKET NO.: 0973/1B889
APPLICANT: Michael SeulSERIAL NO: 09/171,550
FILING DATE: October 26, 1998

JG931 U.S.P.T.O.
09/688573
10/17/98


U.S. PATENT DOCUMENTS

<u>*EXAMINER INITIALS</u>	<u>DOCUMENT NUMBER</u>	<u>DATE</u>	<u>NAME</u>	<u>CLASS</u>	<u>SUBCLASS</u>	<u>FILING DATE</u>
b	5,587,128	12/24/96	Wilding et al.	422	50	11/14/94
b	5,498,392	03/12/96	Wilding et al.	422	68.1	09/19/94

FOREIGN PATENT DOCUMENTS

<u>*EXAMINER INITIALS</u>	<u>DOCUMENT NUMBER</u>	<u>DATE</u>	<u>COUNTRY</u>	<u>CLASS</u>	<u>SUBCLASS</u>	<u>TRANSLATION YES</u>	<u>NO</u>
b	WO 96/04547	02/15/96		G01N	27/00		

OTHER REFERENCES(INCLUDING AUTHOR, TITLE DATE, PERTINENT PAGES, ETC.)*EXAMINER INITIALS

b
Quantitative Monitoring of Gene Expression Patterns with a Complementary DNA Microarray," Mark Schena, Dari Shalon, Ronald W. Davis, Patrick O. Brown, *Science*, Vol. 270, pp. 467-470, October 20, 1995.

b
"Single Molecule Fluorescence Burst Detection of DNA Fragments Separated by Capillary Electrophoresis," Brian B. Haab and Richard A. Mathies, *Analytical Chemistry*, Vol. 67, No. 18, pp. 3253-3260, September 15, 1995.

EXAMINER:

DATE CONSIDERED: 8/9/94

*Examiner : Initials if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and no considered. Include copy of this form with next communication to applicant.



Sheet 1 of 2

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SEP 26 2001

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FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.: 464.1006 CONS

SERIAL NO.:
09/688,573

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): SEUL, Michael

FILING DATE: October 17, 2000

GROUP: 1641

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
Q	AA	3	9	9	8	5	2	5	12/21/76	Giglia	350	160	08/21/75
	AB	4	0	7	5	0	1	3	02/21/78	Ward et al.	96	1.5	09/13/76
	AC	4	4	5	6	5	1	3	06/26/84	Kawai et al.	204	180	08/25/82
	AD	4	5	7	5	4	0	7	03/11/86	Diller	204	67	10/24/84
	AE	4	5	8	1	5	5	0	05/27/86	Hafeman et al.	435	4	04/05/84
V	AF	5	4	4	4	3	3	0	08/22/95	Leventis et al.	313	506	02/18/93
U	AG	5	5	8	7	1	2	8	12/24/96	Wilding et al.	422	50	11/14/94
U	AH	5	4	9	8	3	9	2	03/12/96	Wilding et al.	422	68.1	09/19/94
Q	AI	5	8	5	5	7	5	3	01/05/99	Trau et al.	204	484	11/26/96
U	AJ	6	0	3	3	5	4	7	03/07/00	Trau et al.	204	622	01/04/98
	AK												

FOREIGN PATENT DOCUMENTS

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														YES	NO
U	AL	9	6	0	4	5	4	7	02/15/86	PCT	601N	27/00			X
	AM														
	AN														
	AO														
	AP														

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

Q	AR	Yeh, et al., "Assembly of ordered colloidal aggregates by electric-field-induced fluid flow," <i>Nature</i> , vol. 386.6: 57-59 (1997)
	AS	Giersig et al., "Formation of ordered two-dimensional gold colloid lattices by electrophoretic deposition," <i>J. Phys. Chem.</i> , vol. 97: 6334-6336 (1993)
V	AT	Seul et al., "Scale transformation of magnetic bubble arrays: coupling of topological disorder and polydispersity," <i>Science</i> , vol. 262: 558 - 560 (1993)

EXAMINER *Le May* DATE CONSIDERED 9/9/04

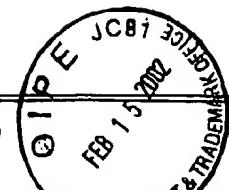
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			ATTY. DOCKET NO.: 464.1006 CONS		SERIAL NO.: 09/688,573		
					APPLICANT(S): SEUL, Michael				
					FILING DATE: October 17, 2000		GROUP: 1641		
TECH CENTER 1600/2900									
U.S. PATENT DOCUMENTS									
*EXAMINER INITIAL		DOCUMENT NUMBER			DATE	NAME	CLASS		
	BA								
	BB								
	BC								
	BD								
	BE								
	BF								
FOREIGN PATENT DOCUMENTS									
		DOCUMENT NUMBER			DATE	COUNTRY	CLASS	TRANSLATION	
	BG							YES	NO
	BH								
	BI								
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)									
b	BJ	Trau et al., "Field-Induced Layering of Colloidal Crystals," <i>Science</i> , vol. 272 : 706-709 (1996)							
b	BK	Seul et al., "Domain Shapes and Patterns: The Phenomenology of modulated Phases," <i>Science</i> , vol. 267 : 476-483 (1995)							
b	BL	Schena et al. "Quantitative Monitoring of Gene Expression Patterns with a Complementary DNA Microarray," <i>Science</i> , vol. 270 : 467-470 (1995)							
b	BM	Haab et al. "Single Molecule Fluorescence Burst Detection of DNA Fragments Separated by Capillary Electrophoresis," <i>Analytical Chemistry</i> , vol. 67 (No. 18) : 3253-3256 (1995)							
b	BN	Richetti, et al., <i>J. Physique Lettr.</i> , vol. 45 : L-1137 to L-1143 (1984)							
b	BO	Sze, "MIS Diode and Charge-Coupled Device," <i>The Physics of Semiconductors</i> , Chapter 7, pp. 362-430 (2 nd Edition) (Wiley Interscience 1981)							
	BP								
	BQ								
	BR								
EXAMINER <i>[Signature]</i>					DATE CONSIDERED			9/9/04	

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APPLICANT(S): SEUL, Michael

FILING DATE: October 17, 2000

GROUP: 1641

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
b	AA	4	4	9	9	0	5	2	2/12/85	Fulwyler	422	52	8/30/82
	AB	4	6	4	7	5	4	4	3/3/87	Nicoli et al.	436	518	6/25/85
	AC	4	8	2	2	7	4	6	4/18/89	Walt	436	528	6/25/86
	AD	4	9	9	4	3	7	3	2/19/91	Stavrianopoulos et al.	435	6	7/20/89
	AE	5	0	0	2	8	6	7	3/26/91	Macevitz	435	6	10/24/88
	AF	5	0	2	8	5	4	5	7/2/91	Soini	436	501	6/9/88
	AG	5	1	0	5	3	0	5	4/14/92	Betzig	359	368	1/10/89
	AH	5	1	1	4	8	6	4	5/19/92	Walt	436	528	6/19/89
	AI	5	1	3	2	2	4	2	7/21/92	Cheung	436	501	11/13/88
	AJ	5	1	3	2	0	9	7	7/21/92	Van Deusen et al.	422	82.09	9/4/93
	AK	5	1	4	3	8	5	3	9/1/92	Walt	436	501	2/2/89

FOREIGN PATENT DOCUMENTS

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	AM	0	4	7	8	3	1	9	4/1/92	EP	G12D	1/68			X
	AN	0	7	2	3	1	4	6	7/24/96	EP	G01N	21/64			X
	AO	8	9	1	1	1	0	1	11/16/89	PCT	G01N	33/536			X
	AP	9	3	0	2	3	6	0	2/4/93	PCT	G01N	33/536			X

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

b	AO	Peterson, et al. "Fiber optic pH probe for physiological use," Anal. Chem. Vol. 52, 864-869 (1980)
	AR	Peterson, et al. "Fiber-Optic Sensors for Biomedical Applications," Science, 13: 123-127 (1984).
	AS	Fuh, et al., "Single Fibre Optic Fluorescence pH Probe," Analyst, 112: 1159-1163 (1987).

EXAMINER *b* *Lay* DATE CONSIDERED *9/9/04*

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	BB	5	2	4	4	8	1	3	9/14/93	Walt et al.	436	172	4/20/92
	BC	5	2	4	4	6	3	6	9/14/93	Walt et al.	422	82.07	1/25/91
	BD	5	2	5	0	2	6	4	10/5/93	Walt et al.	422	82.07	12/21/92
	BE	5	2	5	2	4	9	4	10/12/93	Walt	436	528	1/20/92
	BF	5	2	5	4	4	7	7	10/19/93	Walt	436	172	9/19/91
	BG	5	2	9	8	7	4	1	3/29/94	Walt et al.	250	227.26	1/13/93
	BH	5	3	0	6	6	1	8	4/26/94	Prober et al.	435		1/16/94
	BI	5	3	2	0	8	1	4	6/14/94	Walt et al.	422	82.07	11/25/92
	BJ	5	3	6	2	6	5	3	11/8/94	Carr et al.	436	165	5/6/92
	BK	5	4	0	5	7	8	4	4/11/95	Van Hoegaerden	436	523	2/25/93

FOREIGN PATENT DOCUMENTS

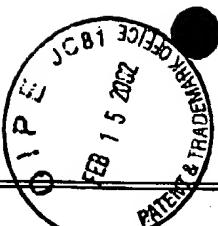
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	BM	9	3	2	4	5	1	7	12/9/93	PCT	427				X
	BN	9	7	1	4	0	2	8	4/17/97	PCT	401	15/10			X
	BO														
	BP														

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

b	BO	Barnard, et al., "A fibre-optic chemical sensor with discrete sensing sites," Nature, vol. 353: 338-340 (1991).
	BR	Campian, et al. "Colored and Fluorescent Solid Supports," Innovation and Perspectives in Solid-Phase Synthesis . Ed: E. Birmingham (Mayflower, London), pp. 469-472 (1994).
	BS	Pope, "Fiber optic chemical microsensors employing optically active silica microspheres," SPIE, vol. 2388 : 245-256 (1995).

EXAMINER	<i>b Mayl</i>	DATE CONSIDERED	<i>9/9/04</i>
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											GROUP: 1641			
U.S. PATENT DOCUMENTS														
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Q	CA	5	4	8	0	7	2	3	1/2/96	Klainer et al.	428	441	5/17/94	
	CB	5	8	1	4	5	2	4	9/29/98	Walt et al.	436	518	12/14/95	
	CC	5	4	9	6	9	9	7	3/5/96	Pope	250	227.21	1/19/94	
	CD	5	5	1	2	4	9	0	4/30/96	Walt et al.	436	171	8/11/94	
	CE	5	5	6	5	3	2	4	10/15/96	Still et al.	435	6	4/18/94	
	CF	5	5	8	7	6	2	7	10/22/96	Lehnens	436	518	1/15/93	
	CG	5	6	3	3	7	2	4	5/27/97	King et al.	356		8/20/95	
	CH	5	6	3	3	9	7	2	5/27/97	Walt et al.	385	116	1/18/95	
	CI	5	6	5	0	4	8	9	7/22/97	Lam et al.	530	334	6/19/91	
V	CJ	5	6	5	2	0	5	9	7/29/97	Margel	428	403	1/25/95	
	CK	5	6	7	4	6	9	8	10/7/97	Zarling et al.	435	7.92	3/30/95	
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		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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	CM													
	CN													
	CO													
	CP													
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
b	CQ	Grazia et al., "In-vivo biomedical monitoring by Fiber-Optic System," Journal of Lightwave Technology, 13, 1396-1406 (1995).												
b	CR	Bangs, "Immunological Applications of Microspheres," The Latex Course, Bangs Laboratories (April 1996)												
b	CS	"Fluorescent Microspheres (Tech. Note #19)," Bangs Laboratories (1997)												
EXAMINER										DATE CONSIDERED			9/9/04	
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GROUP: 1641

U.S. PATENT DOCUMENTS

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<i>Q</i>	DA	5	6	9	0	8	9	4		11/25/97	Pinkel et al.	422	68.1	5/23/95
	DB	5	7	0	0	8	9	7		12/23/97	Klainer et al.	528	15	5/30/95
	DC	5	7	7	9	9	7	6		7/14/98	Leland et al.	422	52	6/8/95
	DD	5	9	3	9	0	2	1		8/17/99	Hansen et al.	422	65	11/23/97
	DE	5	9	6	1	9	2	3		10/5/99	Nova et al.	422	68.1	9/30/98
	DF	5	9	6	5	4	5	2		10/12/99	Kovacs	436	140	11/19/96
	DG	6	0	4	8	6	9	0		4/11/00	Heller et al.	435	6	5/14/95
	DH	6	0	9	0	5	4	5		7/18/00	Wohlstädter et al.	435	6	3/6/97
	DI	6	0	9	0	9	1	2		7/18/00	Lebl et al.	530	300	11/23/98
	DJ	6	2	0	0	7	3	7		3/13/01	Walt et al.	430	320	8/24/95
	DK													

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	DL							
	DM							
	DN							
	DO							
	DP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>Q</i>	DD	Egner, et al., "Tagging in combinatorial chemistry: the use of coloured and fluorescent beads," Chem. Commun. pp. 735-736 (1997)
	DR	Fulton, et al., "Advanced multiplexed analysis with the FlowMetrix system," Clinical Chemistry, vol. 43:9 , pp. 1749-1756 (1997).
	DS	Scott et al., "Properties of fluorophores on solid phase resins; implications for screening, encoding and reaction monitoring," Bioorganic & Medicinal Chemistry Letters, 7:12, pp. 1567-1572 (1997).

EXAMINER	<i>Q</i>	DATE CONSIDERED	<i>8/5/04</i>
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2000 GROUP: 1641

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*EXAMINER INITIAL		DOCUMENT NUMBER			DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	EA								
	EB								
	EC								
	ED								
	EE								
	EF								
	EG								
	EH								
	EI								
	EJ								
	EK								

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER			DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
									YES	NO
	EL									
	EM									
	EN									
	EO									
	EP									

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

b	EQ	Healey et al., "Fiberoptic DNA sensor array capable of detecting point mutations," Analytical Biochemistry, vol. 251, pp. 270-279 (1997).
↓	ER	"Microsphere Selection Guide," Bangs Laboratories, Inc. (Fisher, IN) (September 1998)
	ES	

EXAMINER		DATE CONSIDERED	
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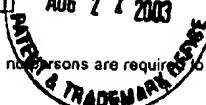
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PTO/SB/08A (08-00)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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SHEET 1

OF []

Compl. if Known

Application Numbr: 09/668,573

Filing Dat: 10/1/00

First Nam d Inv ntor: M. S ul, et al.

Group Art Unit: 16041

Examiner Name:

Attorney Docket Number: LEAPS con 5

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Examiner Initials	U.S. Documents		U.S. Patent Document Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	Number			
b	6,083,763		Balch	7/4/2000
	6,172,218 B1		Brenner	1/9/2001
	5,415,835		Brueck, et al.	5/16/1995
	6,429,027 B1		Chee et al.	8/6/2002
	5,532,128		Eggers et al.	7/2/1996
	5,516,635		Ekins et al.	5/14/1996
	5,961,923		Nova et al.	10/5/1999

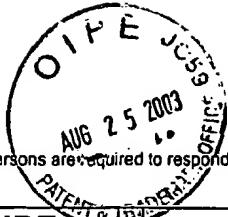
FOREIGN DOCUMENTS

Examiner Initials	Foreign Patent Documents			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation
	Office	Number	Kind Code (if known)			
b		WO 00/04372		Ansfyn, et al.	1/27/2000	
b		WO 99/60170		Baier, et al.	11/25/1999	
b		WO 98/40726		Walt, et al.	2/8/2000	
		WO 00/03004		Fechter, et al.	1/20/2000	
b		WO 00/75373		Walt, et al.	12/14/2000	

Examiner Signature	b. Lang	Date Considered	9/9/04
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	Office	Number	Kind Code (if known)			

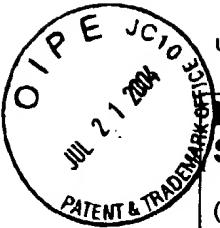
**Examiner
Signature**

6 May

Date Considered

9/9/24

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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SHEET 1

OF 1

Complete if Known

Application Number: 09/688,573

Filing Date: 10/17/2000

First Named Inventor: M. Seul, et al.

Group Art Unit:

Examiner Name:

Attorney Docket Number: LEAPS C5

Examiner Initials	U.S. Documents		U.S. Patent Document Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	Number			
b	US 3,571,614 A		Carreira	04/13/1997
c	US 5,510,270 A		Fodor, et al.	04/23/1996

FOREIGN DOCUMENTS

Examiner Initials	Foreign Patent Documents			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation
	Office	Number	Kind Code (if known)			
b	WO	96 07917 A		Nanogen	03/14/1996	
l	WO	91 19023 A		Savin Corp.	12/12/1991	
v	GB	2 058 379 A		AGFA GEVAERT	04/08/1981	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s).			T ₂
b		YEH, S.R., et al. "Assembly of ordered colloidal aggregates by electric-field-induced fluid flow". Nature, Mar 6, 1997: 57-59. Vol 386, No 6620			
Examiner Signature		<i>b. maye</i>			Date Considered 9/9/04

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